

JOURNAL OF APPLIED CHEMISTRY, 1945, VOL. 18,
NO. 3; [TABLE OF CONTENTS AND SELECTED
ABSTRACTS, [1961] 3p, 7 refs.
Order from OTS or SLA \$1.10

62-14160

Abstract trans. of Zhurnal Prikladnoi Khimii (USSR)
1945, v. 18, no. 3, p. 101-111, 121-125, 175-176,
184-190

DESCRIPTORS: *Chemistry, Abstracting, Periodicals,
Indexes, Acetones, Chlorides, Synthesis, Plants,
Oils, Coal, Coal tar, Chemical analysis

Contents:

Applied chemistry in the Academy of Sciences, by

O. E. Zvyagintsev and A. E. Porai-Koshits

Continuous method of preparation of chloracetone, by

E. A. Shilov and G. V. Kupinskaya

Chemical composition of oil from Lappula echinata
(Chemistry, TT, v. 7, no. 12) (over)

62-14160

Office of Technical Services

Ivanov, K. I., Blagova, T. A. and others.
PREPARATION OF LUBRICATING OILS BY ALKYLA-
TION OF COAL TAR HYDROCARBONS. [1961] 14p.
18 refs.

Order from OTS or SLA \$1.10 61-18239

Trans. of Zhurnal Prikladnoi Khimii (USSR) 1945,
v. 18, p. 158-171.

DESCRIPTORS: *Coal tar, Hydrocarbons, Lubrication,
*Oils, Synthesis, Alkyl radicals.

Alkylation of aromatic hydrocarbons of coal tar from
cooking with olefins of the coke oven gas in the presence
of aluminum chloride and hydrogen chloride may form
up to 38% lubricating oils calculated on the hydrocarbon
charge. The quality of the oil is close to petroleum oil.
It requires no treatment with chemicals or dewaxing.
Considerable quantities (up to 40%) of gasoline consist-
(Materials--Lubricants, TT, v. 6, no. 6) (over)

61-18239

I. Ivanov, K. I.
II. Blagova, T. A.

176618

Office of Technical Services

Cobalt Silicates, by N. P. Diev, V. V. Gribovsky, 4 pp.
UNCLASSIFIED

Full translation.

RUSSIAN, per, Zhur Prik Khim, Vol XVIII, 1945,
pp 181-183.

AEC Tr 2014

Scientific - Chemistry

May 53 CRS

2080

INVESTIGATION IN THE FIELD OF VOLATILE SOLVENTS RECOVERY ON SOLID SORBENTS. 9.
INVESTIGATION OF THE DESORPTION OF VOLATILE SOLVENTS FROM CARBON LAYERS, BY
E. V. ALEKSEYEVSKIY, Z. S. VANYUSHINA,

RUSSIAN, PER, ZHUR PRIK KHM, VOL X XVIII, 1945
PP 193-206.

NLL M.3480

SCI - CHEM

JUN 62

199,105

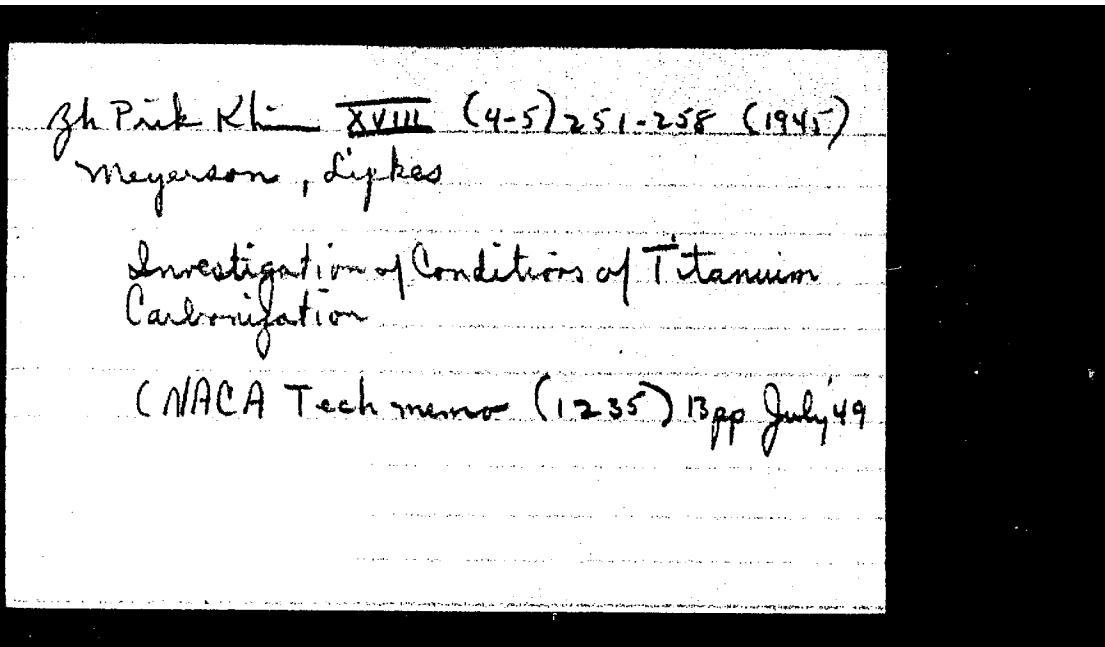
Zhur Prik Khim XVIII, 221-9, (1945)

Adsorption Properties of Kaolin

Ya. A. Fialkov (Inst of Chem os USSR Acad Sci)

(Wilson Dam 2441)

SLA R-2634



V
Quantitative Separation of Columbium and Titanium With
Sodium Hypophosphite, by I. P. Alimarin, T. A. Burova.

RUSSIAN, ~~RUS~~, Zhur Prik Khim, Vol XVIII, No 6,
1945, pp 289-293.

Brutcher Tr No 2584

4105

Scientific - Chemistry

\$4.85

Zhar Prik Khim, XVIII, 294-300 (1945)

Electrolysis of Nickel Mat

M. Loshkarev, O. Esin, and G. Lapp (Electrochem Lab of
the Kirov Ural Industrial Inst)

(Wilson Dam 2442)

Khain, S. S., Frost, A. V. and others.
DEHYDRATION OF ISOPROPYL ALCOHOL OVER
SOLID CATALYSTS. [1961] Bp. 13 refs.
Order from OTS or SLA \$1.10 61-18344

Trans. of Zhurnal Prikladnoi Khimii (USSR) 1945,
v. 18, p. 301-308.

DESCRIPTORS: *Propanols, Dehydration, *Propyl
ethers, Synthesis, *Aluminum compounds, *Alums,
Catalysis, Chemical reaction, Temperature, Pres-
sure, Velocity

A catalyst was developed with which 25.9-29.4 mol-%
yields of isopropyl ether can be obtained from iso-
propyl alcohol of 92-95% concentration, when calcu-
lated on the alcohol charged or 66.5-73.8% on the
alcohol converted, for a rate of flow of 1.16-5.70
l/kg catalyst per hour and a reaction temperature of
(Chemistry--Physical, TT, v. 6, no. 10) (over)

61-18344

I. Khain, S. S.
II. Frost, A. V.

Office of Technical Services

JOURNAL OF APPLIED CHEMISTRY, 1945, VOL. 18,
NO. 6: [TABLE OF CONTENTS AND SELECTED AB-
STRACTS]. [1961] 3p.
Order from OTS or SLA \$1.10

62-14162

Abstract trans. of Zhurnal Priladnoi Khimii (USSR)
1945, v. 18, no. 6, p. #313 and 372-373.
##A complete trans. of p. 313-321 is available from
SLA as RT-3405.

DESCRIPTORS: *Chemistry, Literature, Abstracting,
Ammonia, Catalysts, Bactericides, Determination.

Contents:

##Selection of new materials for ammonium catalysts,
by V. M. Grinevich
Determination of small amounts of antiseptics of the
type of zefirof, by G. A. Garkusha and T. N. Pater.
(Chemistry, IT, v. 8, no. 4)

62-14162

1. Title: Zefirof

Office of Technical Services

Selection of New Kinds of Raw Material for
Ammonia Catalysts, by V. M. Grinevich, 14 pp.

RUSSIAN, per, Zhurnal Prikladnoi Khimii, Vol
XVIII, No 6, 1945, pp 313-321.

Sci Trans. Center RT-3405

Scientific - Chemistry 22, 711

Apr 56

Firсанова, Е. Н.
INVESTIGATION OF THE CHEMICAL COMPOSITION
OF SYNTHETIC. II. ANALYSIS OF WATER FORMED IN
SYNTHESIS OF HYDROCARBONS, [1961] 6p. 5 refs.
Order from OTS or SLA \$1.10 61-18341

Trans. of Zhurnal Prikladnoi Khimii (USSR) 1945, v. 18,
p. 367-371.

DESCRIPTORS: *Hydrocarbons, Synthesis, Nickel,
Cobalt, Aluminum, Catalysts, Chemical reactions,
*Alcohols, *Acids, *Water, Chemical analysis.

The products of interaction of carbon monoxide with
hydrogen under atmospheric pressure in the presence
of a nickel-cobalt-aluminum catalyst at 180-190°C con-
tain not only hydrocarbons and small amounts of acids,
but also aliphatic alcohols and aldehydes soluble in
water. From the reaction water 0.15-0.37% neutral
(Chemistry--Organic, TT, v. 6, no. 10) (over)

61-18341

I. Firсанова, Е. Н.
II. Title: Analysis ...

.253

Office of Technical Services

The Theory of Equilibrium Concentrations
and Continuous Flow of a Solution; Counter-
flow Processes, by N. I. Kirillov 221 pp.

RUSSIAN, per, Zhur Prik Khim, Vol XVIII,
No 7/8, 1945, pp 381-392.

SLA 60-18411
(SLA 63-14740)
Sci
Vol IV, No 11 199, 251
Jun 62

K-H-18411

Stability and Volatility of Tin Oxides, by
V. K. Vesselovskiy, 28 pp.

RUSSIAN, per, Zhur Prik Khim, Vol XVI, No 9, 10,
1945, pp 397-419.

Sci Mus Lib No 54/3560

Scientific - Chemistry

Apr 55 CTS/DEX

23,308

~~CONFIDENTIAL~~

Decomposition of Dowtherm "A" on Heating to 550° C,
by S. V. Bal'yan, 8 pp.

RUSSIAN, per, A Zhur Prik Khim, USSR, Vol XVIII,
1945, pp 420-424.

Technical
Assocd Services
New Jersey RJ-54
OTS 62-18535

15,026

\$9.20 (\$1.25)

Scientific - Chemistry

Kaznak, E. D., Kudakova, M. P., and Titova, Z. M.
DEHYDROGENATION OF TURPENTINE OVER A
CHROMIUM OXIDE CATALYST. [1961] 5p. 17 refs.
Order from OTS or SLA \$1.10

61-20132

I. Kaznak, E. D.
II. Kudakova, M. P.
III. Titova, Z. M.

Transl. of Zurnal Prikladnoi Khim. (USSR) 1945, v. 18,
p. 425-429.

DESCRIPTORS: *Turpentine, Dehydrogenation,
*Chromium compounds, *Oxides, Catalysts, Catalysis,
*Cymenes, *Hydrocarbons.

Dehydrogenation of turpentine hydrocarbons was studied as a part of the research on preparation of high octane motor fuel components from turpentine. Conversion of the charging stock in contact with chromia on alumina at 200-500° was found to involve dehydrogenation of *o*-pinene and carene to *p*-cymene; how-
(Chemistry--Organic, TT, v. 6, no. 11) (over)

61-20132

Office of Technical Services

Zhur Prik Khim, XVIII, 439-49 (1945)

Kinetic's and Mechanism of Catalytic Conversion of
~~Xxx~~ Carbon Monoxide

V. A. Roiter, S. S. Gaukhman, N. P. Pisarzhevskaya and
T. M. Gvaliya (Pisarzhevskiy Inst of Phys Chem, USSR
Acad Sci)

(Wilson Dem 2418)

X - 128

Roiter, V. A., Rubanik, M. Ya., and others.
REMOVAL OF ACETYLENE FROM THE AIR BY
CATALYTIC OXIDATION. [1961] 10p. 6 refs.
Order from OTS or SLA \$1.10 61-20117

Transl. of Zhurnal Prikladnoi Khimii (USSR) 1945,
v. 18, p. 450-458.

DESCRIPTORS: *Air, Purification, *Acetylenes, Oxida-
tion, Manganese compounds, Dioxides, Ores, Cata-
lysts, Catalysis.

A method of removal of acetylene from the air is sug-
gested, involving oxidation of acetylene with oxygen.
Catalysts were found suitable for this process. They
consisted of manganese dioxide, which is applicable
to a wide interval of concentrations of acetylene, and
of manganese ore treated with silver salts. The
method may be used for the removal of acetylene
(Chemistry--Physical, TT, v. 5, no. 11) (over)

61-20117

I. Roiter, V. A.
II. Rubanik, M. Ya.

6060

Office of Technical Services

<p>Roiter, Z. A., Gaukman, S. S., and Tudorovskaya, M. A. CATALYTIC OXIDATION OF HYDROGEN SULFIDE IN THE PRESENCE OF HYDROGEN. [1961] 10p. 27 refs. Order from OTS or SLA \$1.10</p> <p>Trans. of Zhurnal Prikladnoi Khimii (USSR) 1945, v. 18, p. 459-468.</p> <p>DESCRIPTORS: Hydrogen compounds, Sulfides, Oxidation, *Nickel catalysts, *Lead catalysts, Cata- lysts, Catalysis, *Hydrogen, Chemical reactions.</p> <p>A study was carried out of the efficiency of the cata- lyst composed of oxides of nickel and lead and sup- ported on kieselguhr in the oxidation of hydrogen sul- fide in the mixture $H_2S + O_2 + H_2 + N_2$, as dependent upon the following factors: temperature, space veloc- (Chemistry--Physical, TT, v. 6, no. 11) (over)</p>	<p>61-20133</p> <p>I. Roiter, Z. A. II. Gaukman, S. S. III. Tudorovskaya, M. A.</p> <p>Office of Technical Services</p>
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JOURNAL OF APPLIED CHEMISTRY, 1945, VOL. 18,
NO. 9/10; [TABLE OF CONTENTS AND SELECTED
ABSTRACTS]. [1961] 7p. 14 refs.
Order from OTS or SLA \$1.10 60-14164

Abstract trans. of Zhurnal Prikladnoi Khimii (USSR) 1945, v. 18, no. 9/10, p. 469-473, 505-507, 518-520, 534-547, 556-570, 572-575.

DESCRIPTORS: *Chemistry, Abstracting, Metallurgy, Chemical engineering, *Activated carbon, Oxidation, Inflammable materials, Temperature, *Carborundum, *Pipettes, Automatic, Adsorption, Gases, Absorption, *Coal tar, *Peat, Density, *Acetones, Oxidation, Potassium compounds, Manganates, *Organic compounds, *Alkyl radicals, Sulfur compounds, Chlorides, Amides, *Bentonite, Clays, Chemical industry.

(Chemistry, TT, v. 8, no. 2)

(over)

62-14164

- I. Title: Suspension ultrafiltrers
I. Title: Alkyl...
II. Balkov, A. A.

Office of Technical Services

<p>Eidus, B. R. DEPENDENCE OF THE HYDROGEN-CARBON RATIO IN LIQUID FUEL UPON ITS AVERAGE SPECIFIC GRAVITY. [1961] 6p. 12 refs. Order from OTS or SLA \$1.10</p> <p>61-20140</p> <p>Trans. of Zhurnal Prikladnoi Khimii (USSR) 1945, v. 18, p. 543-555.</p> <p>DESCRIPTORS: Liquids, *Fuels, *Oils, Organic com- pounds, *Hydrogen, *Carbon, Density, Stability.</p> <p>On the example of a large number of organic com- pounds the hydrogen-carbon ratio was correlated with specific gravity. An equation $(H/C)' = 3.86 - 2.3D$ was derived suitable for comparative characterization of crude oils with tars from coal and peat. Similar equations were derived for the series of paraffins and naphthenes. (Author) (Chemistry--Organic, TT, v. 6, no. 11)</p>	<p>61-20140</p> <p>I. Eidus, B. R.</p> <p>L. O. D. 7</p> <p>Office of Technical Services</p>
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<p>Balandin, A. F., Bogdanova, O. K. and others, CATALYTIC DEHYDROGENATION OF THE TECHNI- CAL BUTANE-BUTENE FRACTION OF CRACKED GAS. [1961] 4p. 3 refs. Order from OTS or SLA \$1.10 61-20144</p> <p>Trans. of Zhurnal Priladnoi Khimii (USSR) 1945, v. 18, p. 609-611.</p> <p>DESCRIPTORS: *Butanes, *Butenes, Dehydrogenation, Catalysis, Catalysis, *Butadienes, Synthesis, *Hydro- carbons, Gases.</p> <p>On the example of catalytic dehydrogenation of a plant- produced butane-butene fraction of cracking gases it was shown that the method of preparation of butadiene (by dehydrogenation of pure butane and 1-butene) previously described by the authors is totally appli- cable to gases from oil cracking. (Author) (Chemistry--Organic, TT, v. 6, no. 11)</p>	<p>61-20144</p> <p>I. Balandin, A. A. II. Bogdanova, O. K.</p> <p>2-1913</p> <p>Office of Technical Services</p>
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The Vinylation of Coal From the Moscow Area, by
N. F. Shoslakovskiy.

RUSSIAN, per, Zhur Prik Khim, Vol XXIX, 1945,
pp 463-467.

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Pitts,, Pa. Tr 267

Sci - Eng
June 59

89,900

Amelin, A. G.

ABSORPTION OF SULPHUR TRIOXIDE BY AQUEOUS
SOLUTIONS OF SULPHURIC ACID, II. [1961] [10]p.
9 refs. [DSIR LLU] M 2055.

Order from LC or SLA m\$1.80, ph\$1.80 61-13415

Trans. of Zhurnal Tekhnicheskoi Khimii (USSR) 1945,
v. 18, p. 509-516.

CIA/FDD/X-133

61-13415

1. Sulfur oxides--Absorption
2. Sulfuric acid--Absorptive properties

I. Amelin, A. G.

II - DSIR LLU M.2055

142900

Office of Technical Services

(Engineering--Chemical, TT, v. 5, no. 12)

Zhur Prik Khim, XVIII, 518-20, (1945)

Suspension Ultrafilters

S. G. Mokrushin (Ural Industrial Inst)
(Wilson Dam 2443)

Zhur Prik Khim, XVIII, 521-8, (1945)

Physicochemical Analysis of Sulfuric Acid Treatment
of Phosphates V. The Solubility of Calcium Sulfate in
Aqueous Solutions of Phosphoric Acid at $\leq 40^\circ$, 60° and
 90° C.

A. A. Taperova and M. N. Shulgina (Lab of Physico chem
analysis of the State Inst of Fertilizers and Insecto-
fungicides, NIUIF)

2436
(Wilson Dam 2426)

JOURNAL OF APPLIED CHEMISTRY, 1945, VOL. 18,
NO. 11/12; [TABLE OF CONTENTS AND SELECTED
ABSTRACTS]. [1961] Pp. 4 refs.
Order from OTS or SLA \$1.10

62-14165

Abstract trans. of Zhurnal Prikladnoi Khimii (USSR)
1945, v. 18, no. 11/12, p. 581-608, 644-646,
690-698, 718-724.

DESCRIPTORS: *Chemistry, Abstracting, *Absorption,
*Adsorption, Mixtures, *Alkylation, Ammonia,
*Amines, *Aldehydes, Ketones, *Butyl radicals,
*Vapors, Recovery, *Steam, *Activated carbon, Sol-
vent action, *Gases, *Sodium compounds, *Fluorides,
*Silicate, Colloids, *Zinc compounds, *Sulfates, Solu-
tions, Purification, Copper, Cadmium, *Hydrogen
compounds, *Sulfides, Ethanes, Sulfonates, Organic
compounds, *Gold, Aliphatic compounds, *Tuberculo-
sis, Therapy, Synthesis.
(Chemistry, TT, v. 8, no. 2)

(over)

62-14165

- I. Title: Preparation...
II. Title: Desorption...
III. Favorskii, A. E.

Office of Technical Services

Investigations on the Field of Recovery of
Volatile Solvents on Solid Sorbents. XI.
Desorption of Solvents From Solid Sorbents With
Steam. Theory of Desorption, by E. V.
'Jokseyevskiy, Z. S. Vanyushina.

RUSSIAN, per, Zhur Prik Khim, Vol XVIII,
1945, pp 658-665.

ML M. 3606

Sci - Chem

207, 315

Aug 62

Nikolaev, A. V., Frolova, E. V., and Shternina,
E. B.
STORING OIL AND OTHER LIQUIDS IN CHEMI-
CALLY TREATED GROUND. [1961] 4p. 3 refs.
Order from OTS or SLA \$1.10 61-20145

Trans. of Zhurnal Prikladnol Khimii (USSR) 1945,
v. 18, p. 686-689.

DESCRIPTORS: *Liquids, *Oils, *Storage, Sand, Iron
compounds, Hydroxides, Permeability, Tests.

The impermeability to oil products, alcohol and water
of a film of ferric hydroxide on a layer of sand was
tested and it was found that neither of these liquids
passed through this film during a period of from 6 to
11 months. The passing of oil products through a
dough-like moist mass of lime was also investi-
gated. (Author)
(Engineering--Chemical, TT, v. 8, no. 1)

61-20145

I. Nikolaev, A. V.
II. Frolova, E. V.
III. Shternina, E. B.

Office of Technical Services

Rozlovskaia, S. I. and Temkin, M. I.

VAPOR PRESSURE OF MIXTURES OF VINYLIDENE CHLORIDE AND VINYL CHLORIDE. [1961] 4p. 1 ref.
Order from OTS or SLA \$1.10

61-20160

I. Rozlovskaia, S. I.
II. Temkin, M. I.

Trans. of Zhurnal Priladov Khimii (USSR) 1946,
v. 19, p. 30-34.

DESCRIPTORS: *Vinyl chlorides, Chlorides, Mixtures, Vapor pressure, Measurement.

Vapor pressures of vinyl chloride at from 20 to 60°C. and of vinylidene chloride within 20 and 90°C were determined and satisfactory agreement was established of the data for vinyl chloride with those reported in the literature. Vapor pressures of three mixtures of vinyl chloride with vinylidene chloride were determined within the temperature interval of 20 to 80°C and it was found that the vapor pressure of these mixtures can be calculated with sufficient approximation on the basis of the law of Raoult. (Author)

(Chemistry--Organic, TT,
v. 7, no. 1)

Office of Technical Services

Graphite-Fireclay Ladle Refractories and the
Mechanism of Their Water, by P. P. Budnikov,
L. A. Tseimlin.

RUSSIAN, per, Zhur Prik Khim, Vol XIX, 1946,
pp 40-.

DSIR LLU M.1229
(loan)

Sci - Engr

128, 876

Oct 60

The Reciprocal System KCL - NH₄NO₃-H₂O in
the Presence of Ammonia. I. Quaternary Ammonical
Systems: K⁺/Cl⁻, NO⁻³ and HN⁴/Cl⁻, NO⁻³,
by N. P. Aleksandrov.
RUSSIAN, per, Zhurnal Prikladnoi Khimii, Vol 19,
No 1, 1946, pp 63-70.
SLA TT-66-10247

Sci-Chem
Aug 66

309,191

Rabinovich, I. B. and Osin, B. V.
ELECTROCONDUCTIVITY OF LIME DURING HYDRATION AND SETTING. 22 July 63, 9p. (figs. tables omitted) 8 refs.

Order from OTS, SLA or ETC \$1.10 TT-63-18766

Trans. of [Zhurnal Prikladnoi Khimii] (USSR) 1946, v. 19 [no. 1] p. 90-96.

DESCRIPTORS: *Cements, *Calcium compounds, Oxides, Hydroxides, *Hydrates, *Aging (Materials), *Hardening, *Electrochemistry, *Electrical conductance, *Electroosmosis,

A method was developed for measuring the electroconductivity at constant temperature during the highly exothermic process of hydration (and setting) of lime. A number of corresponding curves showing the changes in electroconductivity during the process was obtained. (Materials, TT, v. 11, no. 1) (over)

TT-63-18766

I. Rabinovich, I. B.
II. Osin, B. V.

Office of Technical Services

The Preparation and Properties of Ascorbic acid.
On the Lactonisation of Diacetone-2-keto-gulonic
acid, by Y. M. Slobodin, A. K. Basova.

RUSSIAN, per. Zhur. Priklady Khim., Vol XIX, 1946,
pp 172-175.

UKSM Ref. T. 1774

Sci

63, 924

Studies of the Equilibria Liquid-Vapour in the
Systems Water-Ethylene Glycol-Diethylene Glycol-
Triethylene Glycol, by T. K. Skripach, M. I.
Tunkin. Ural.

RUSSIAN, per, Zhur Fiz Khim, Vol XIX, No 2,
1946, pp 180-185.

DSIR Lending Library Unit N. 191

Sci - Chem
Apr 59

85, 884

Method of the Preparation of 2, 3-Di-chlorobutadiene-1, 3, by A. L. Klebanskiy, A. P. Belen'kaya, K. K. Chevychalova, 10 pp.

RUSSIAN, per, Zhur Prik Khim, Vol XIX, 1946,
pp 200-206.

SLA 60-17198

Sci

Apr 61

163,252

OTS, Vol III, No 12

Balandin, A. A. and Marukyan, G. M.
CATALYTIC PREPARATION OF α -METHYL-
STYRENE. [1961] 10p. 12 refs.
Order from OTS or SLA \$1.10

61-20159

Trans. of Zhurnal Prakticheskoi Khimii (USSR) 1946,
v. 19, p. 207-216.

DESCRIPTORS: *Styrenes, Methyl radicals,
Synthesis, *Cumene, Dehydrogenation, Copper,
Chromium, Catalysts, Catalysis.

A study of catalytic dehydrogenation of isopropylbenzene to α -methylstyrene showed that this method may be recommended for testing on a commercial scale. α -Methylstyrene is distinguished by a number of advantages over styrene. Its preparation is simpler and the quality of synthetic rubber obtainable by its copolymerization with 1,3-butadiene is apparently higher than that of copolymers of the latter with styrene. De-

(Chemistry--Organic, TT, v. 6, no. 11} (over)

61-20159

I. Balandin, A. A.
II. Marukyan, G. M.

Office of Technical Services

The Kinetics of the Chamber Process for Sulfuric Acid, by I. N. Kuzminykh.

RUSSIAN, per, Zhurnal Prikladnoi Khimii, Vol 19, 1946, pp 217-230.

ATS 34Z12CR - \$35.25.

NTC 72-00762-07D

Jan 73

Krasyukov, A. F., Boikova, E. P., and Kalita, L. A.
PREPARATION OF A TANNING MATERIAL FROM
OIL REFINING WASTE PRODUCTS. [1961] 6p. 2 refs.
Order from OTS or SLA \$1.10 61-20119

Trans. of Zhurnal Prikladnoi Khimii (USSR) 1946,
v. 19, p. 322-328.

DESCRIPTORS: *Oils, Refineries, *Chemical waste,
*Tannic acids, *Leather.

A synthetic tanning material (sulfoeyntan) was prepared on a laboratory scale from acid sludge from refining paraffinic oil. The simplicity of its preparation and of the equipment required make this material inexpensive; its quality is not lower than that of sulfo-anthracene, which is used in the USSR for tanning. Subsequent strengthening of the adhesion of sulfo-paraffin to the hide fibers with the aid of green vitriol (Materials--Leather, TI, v. 7, no. 8) (over)

61-20119

1. Title: Tanning
2. Title: Sulfoeyntan
- I. Krasyukov, A. F.
- II. Boikova, E. P.
- III. Kalita, L. A.

201422

Office of Technical Services

Kremnev, L. Ya., Mischchenko, K. P., and
Peklinov, A. I.
EMULSIONS OF METALLIC MAGNESIUM IN THE
MELTS OF VARIOUS SALTS. [1963] 16p.
Order from K-H \$16.00 K-H 6065 a

Trans. of [Zhurnal Prikladnoi Khimii] (USSR) 1946,
v. 19, no. 4, p. 363-370.

DESCRIPTORS: *Magnesium, Liquid metals, *Salts,
Melting, *Colloids.

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(Chemistry--Inorganic, TT, v. 10, no. 2)

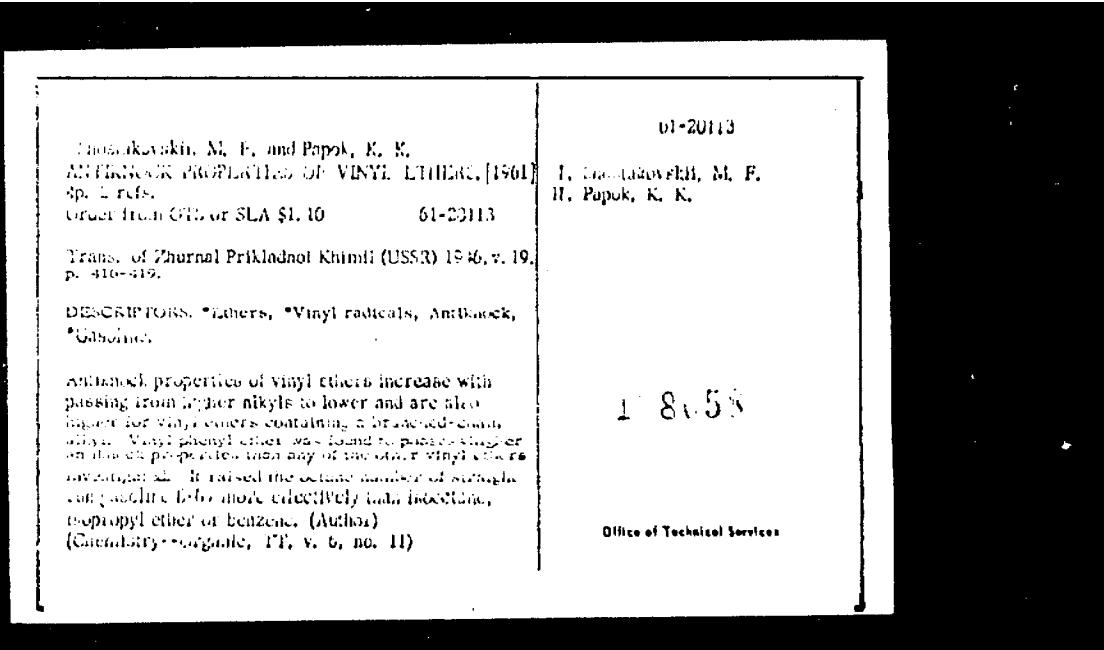
63-17276

I. Kremnev, L. Ya.
II. Mischchenko, K. P.
III. Peklinov, A. I.
IV. K-H-6065-a
V. Kresge-Hooker Science
Library Associates,
Detroit, Mich.

SLA TT-64-20201

Office of Technical Services

Explosive mixtures of water and methyl alcohol
with magnesium and aluminum, by A. A. Shilovskij,
12 pp
Zhurnal Prikladnoy Khimii, 1946, vol 19, no 4
RUSSIAN ver, Vol 19 No 4 pp 371 - 378
Sci Museum Lib no 52/0054



Tsyakovskii, V.
SYNTHESIS OF FATTY ACIDS FROM FRACTIONS
OF PETROLATUM. [1961] 7p. 5 refs.
Order from OTS or SLA \$1.10 61-20114

Trans. of Zhurnal Prikladnoi Khimii (USSR) 1946,
v. 19, p. 428-434.

DESCRIPTORS: Hydrocarbons, Oxidation, *Fatty
acids, Acids, Synthesis.

Previous attempts to use petrolatum as a raw material for oxidation to acids to be used for the manufacture of greases were unsatisfactory, because of the unsuitability of the molecular weights of a substantial portion of the charging stock and its contents of isoparaffins. Conditions of distillation were found during which isoparaffins contained in petrolatum are for the most part broken down into straight chain paraffins. Fractions of the material amounting to up (Chemistry--Organic, TT, v. 7, no. 10) (over)

61-20114

1. Title: Petrolatum
1. Tsyakovskii, V.

Office of Technical Services

Bocharov, A. A. and Obolentsev, R. D.
ANALYSIS OF HYDROCARBON MIXTURES BY THE
USE OF COMPOUNDS WITH HIGH INTERNAL
PRESSURE. [1961] 9p. 10 refs.
Order from OTS or SLA \$1.10

61-20116

Trans. of Zhurnal Prikladnoi Khimii (USSR) 1946, v. 19,
p. 492-503.

Descriptors: *Hydrocarbons, Mixtures, *Iodides,
Solubility, Raman spectroscopy, Infrared spectroscopy,
Pressure, Temperature.

A new method of analysis of binary mixtures of isomeric paraffins was developed based on the solubility of stannane iodide in them. This method, in conjunction with qualitative analysis by Raman spectroscopy and the determination of the methyl number by infrared spectroscopy, offers a means of quantitative
(Continued on next page, p. 6, no. 11) (over)

61-20116

I. Bocharov, A. A.
II. Obolentsev, R. D.

8800 J

Office of Technical Services

Reaction of Niobium and Tantalum With Polyphenols,
by Yu. V. Karyakin and P. M. Telezhnikova.

Full translation.

RUSSIAN, per, Zhur Prikl Khim, Vol XIX, Vo 4, USSR,
1946, pp 435-439.

AEC Tr 1279

Scientific - Chemistry

Jun 52 CPS

DEK

Reaction of Tertiary Amines With Phosgene Under
Conditions of Formation of Tetrasubstituted Ureas,
by R. P. Lastovskiy, 10 pp.

RUSSIAE, per, Zhur Prik Khim, Vol XIX, No 4, 1946,
pp 440-444.

Sci Tr Center
RT-1650

Scientific - Chemistry

/ CTS/DEX 18,758

The Use of Substances of High Internal Pressure for the Analysis of Hydrocarbon Mixtures, by A. A. Botcharov,
N. D. Obolensky.

RUSSIAN, per, Zhur Prik Khim, Vol XXIX, No 5, 6,
1946, pp 492-503.

Thornton Research Centre
MIGC 4
P 22061 T

16,382

Scientific - Chemistry

apply for Tr. to Shell Petroleum Co Ltd ~~XXIX~~
Norman House, 105-109 Strand, London, W. C. 2

Gutner, R., Morozova, G., Papkina, Z.,
Tishchenko, M., and Shchigelskaya, M.
VAPOR PHASE HYDROLYSIS OF CHLOROBENZENE,
II. [8 Oct 47] [10p] 4refs
Order from OTS or SLA \$1.10

63-18534

Trans. of [Zhurnal Prikladnoi Khimii] (USSR) [1946]
v. 19, p. 504-510.
A trans. is available in Dutch from OTS or ETC \$1.55
as 61-17763, MTWL-98, 10p.

DESCRIPTORS: *Benzenes, *Chlorides, Hydrolysis,
Vapors, *Phenols, Catalysts, Chemical reactions,
Graphic analysis, Sorption.

(Chemistry--Organic, TT, v. 10, no. 10)

63-18534

- I. Title: Phenyl chloride
- II. Gutner, R.
- III. Morozova, G.
- IV. Papkina, Z.
- V. Tishchenko, M.
- VI. Shchigelskaya, M.

Office of Technical Services

Adsorption of Methane on Charcoal, by I. P.
Kirillov, E. S. Rakhlin, 8 pp.

RUSSIAN, per Zhur Prik Khim, Vol XIII, No 5-6,
1946, pp 511-515.

Sci Trans Center RT-859

Scientific - Chemistry
CTS/DEX

4089

Deformation Properties of Thickeners, by M. G.
Shikher

RUSSIAN, per, Zhur Teknicheskikh Nauk, Vol XIX, No 5/6,
1946, pp 542-552.

Assoc Tech Sv RJ-473
\$13.80

Sci - Chemistry
Jan 57 CTS

42,177

S-178/60

(NY-4819)

High-Speed Oxidizing Gasification of Benzine, by
M. I. Demnet'yeva, M. A. Rivin, D. M. Rudkovskiy,
38 pp.

RUSSIAN, per, Zhur Prik Khim, Vol XIX, No 7,
1946, pp 632-650.

JPRS 5506

Sci - Chem

128,300

Oct 60

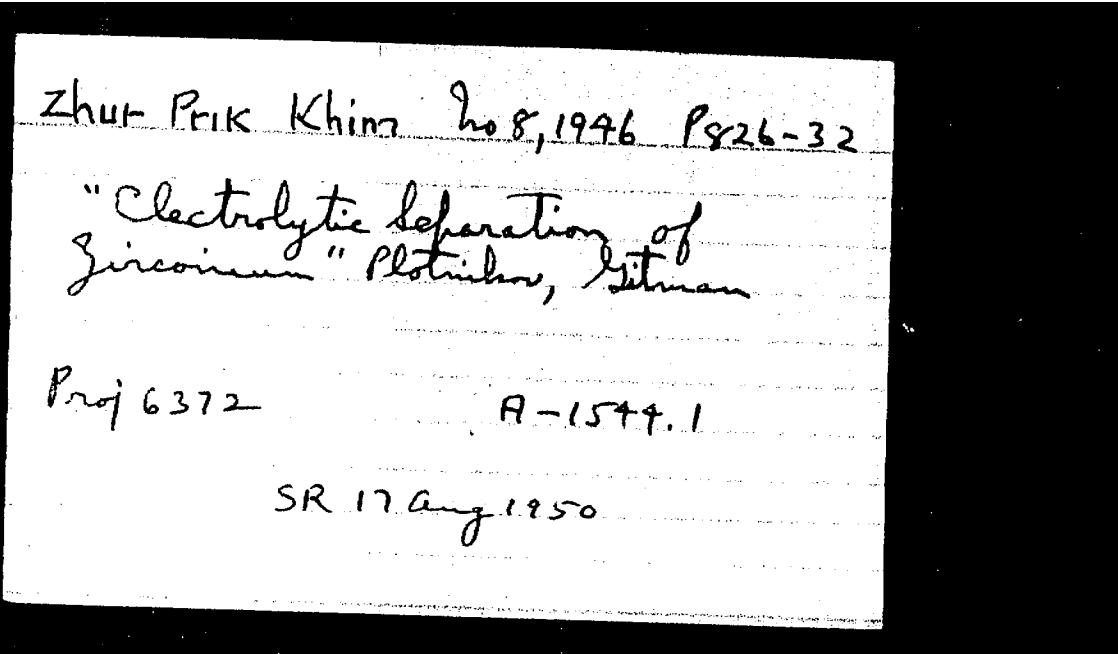
Mechanism of Corrosion of Iron by Sulfur,
by P. V. Gel'd, O. A. Esin

RUSSIAN, no per, Zhur Prik Khim, Vol 19,
No 7, 1946, pp 678-83

Brutcher No 3186
\$4.40

Scientific - Min/Metals, Chemistry
Feb 56 CTS/dex

31,235



Zhur Prik Khim, XIX, 684-92; 841-47 (1946)

The Suspending Ability of Clayey Washing Liquids Used
in Drilling I and II

P. M. Khomikovskiy and D. I. Shilov

(Wilson Dam 2579) SLA R-6001

Synthesis of Polyvinyl Foam in the Homogenous Medium, by S. N. Ushakov, O. B. Eve.
RUSSIAN, per, Zh. Prik. Khim., Vol 19, No 9,
1946, pp 853-860.
NLL 5828.4F (11812)

Sci - Chem
Sept. 67

340,357

Absorption of Carbon Dioxide by Ethanolamines
I. The Rate of Absorption of Carbon Dioxide by
Solutions of Mono-, Di-, and Triethanolamines, by
A. L. Shneerson, A. G. Leibush, 12 pp.

RUSSIAN, per, Zhur Prik Nhim, Vol XIX, No 9,
1946, pp 869-879.

SLA R-1873
NLL/KTS 2275

Sci
Aug 58

70/844

Contact Method of Production of Acetaldehyde From Acetylene in the Vapor Phase, by A. Ya. Yakubovich et al.

RUSSIAN, no per, Zhur Prik Khim, Vol XVI, 1946,
USSR, pp 973-988.

Assoc Tech Sv RJ-6
Sci - Chemistry \$28.20 (\$3.90) SCA R-1869

Aug 54

RJ-64
17,132

Dertev, N. K.

NEW METHOD OF MAKING GLASS ON BASIS OF
SODIUM CHLORIDE IN PLACE OF SODA. [1962]
[29]p. 7 refs.

Order from OTS or SLA \$2.60 62-16465

Trans. of Zhurnal Prikladnoi Khimii (USSR) 1946,
v. 19, no. 9, p. 1007-1017.

DESCRIPTORS: Manufacturing methods, *Glass,
*Sodium compounds, *Chlorides, Carbonates.

(Materials--Ceramics, TT, v. 8, no. 11)

62-16465

I. Dertev, N. K.

Office of Technical Services

Complex Fluoride Compounds of Tantalum and Niobium,
by G. S. Savchenko, I. V. Tananaev, 19 pp
UNCLASSIFIED

RUSSIAN, per, Zhur Prik Khimi, Vol XIX, No 10-11,
1946, 1993-1106,

Sci Tr Center
RT-1118

AEC-TR-6669
(9215593)

15, 359

Dehydrogenation of Ethylbenzene in Mixture with
Xylene, by A.A. Balandin and G.M. Marukyan.
RUSSIAN, per, Zhurnal Prikladnoi Khimii, 1946,
Vol. 19, no. 12, pp.1277-1280.
SLA-TT-64-20366

Chem
Aug 66

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30⁶,620

Zhur Prik Khim XI X, 1350-7, 1946

Physico-Chemical Analysis in the Field of the Hydro-chloric Acid Treatment of Phosphates I. The System $\text{CaO-P}_2\text{O}_5-\text{HCl-H}_2\text{O}$

A. A. Taperova and M. N. Shul'gina (Lab for Physico-chemical Analysis of the Sci Inst of Fertilizers and Insectofungicides, NUIUF)

(Wilson Dam 2612)

CTS 63-16429

Oscillographic Study of Discharge in Pulsed X-Ray
Tubes, by E. N. Reikhrudel, A. A. Sanin, T. A.
Titova, 6 pp.

RUSSIAN, per, Zhurnal Prikladnoi Fiziki, Vol XXI,
No 7, 1951.

Amer Meteorol Soc
AF Cambridge Res Center

Sci - Physics

May 60

113,850

Effective Coefficient of Heat Transfer in Catalyst
Masses, by V. O. Eakhurev, G. K. Boreskov.

RUSSIAN, per, Zhur Prik Khim, Vol XX, 1947.

CIA/PDD/X-146

Scientific - Chemistry

15,037

Physico-Chemical Properties of Rthanolamines, by
A. G. Leybush, E. D. Shorina.

RUSSIAN, no per, Zhur Prik Khim, Vol XX, 1947,
TCSR, pp 69-76.

Assoc Tech Sv RJ-112 Margolin

Sci - Chemistry

\$8.40 (\$1.15) Unit M. 182

Aug 54

17,117

Reduction of Nickel Silicate Minerals by
Carbon Monoxide, by D. P. Bogatskiy, 15 pp.

RUSSIAN, no per, Zhur Prik Khim, Vol XX,
No 1/2, 1947, pp 81, 88.

Sci Tr Center RT-2854

Scientific - Chemistry; Min/Metals
Jan 56 CTS/dex

30, 213

Hydrometallurgical Treatment of Alluvial Nickel Ores by the Ammoniacal Method, by D. P. Bogatskiy, A. S. Semenova, 19 pp.

RUSSIAN, no per, Zhur Prik Khim, Vol XX,
No 1/2, 1947, pp 89-96.

Sci Tr Center RT-2855

Scientific - Min/Metals
Jan 56 CTS/dex

30, 212

The Condensation of Melamine and Formaldehyde and the Preparation of Melamine Formaldehyde Resins and Plastics From These Resins, by A. A. Vansheidt, Z. K. Naumova, N. E. Sorokina, 14 pp.

RUSSIAN, per, Zhurnal Prikladnoi Khimii, Vol XX, No 3, 1947, pp 163-169.

Sci Trans Center RT-3403

32,694

Apr 56

Scientific - Chemistry

Investigation of Properties of lead
Lead Oxide Batteries, by V.P.
Mashovets.

RUSSIAN, Zhur Tekh Khim, Vol XT,
no 3, 1947, pp 225-238

NRL Tr 191 - Sci Trans Center RT-96

GORBUNOV, N. S.
AND OTHERS

Zhurnal Prikladnoi Khimii, vol. 20, No. 4, 8 figures,
2 tables, 1800 words; 1947.

Hardness of Chromium-impregnated Surfaces on Iron
and Steel.

Brutcher Trans, Order No. 2022, \$3.15.

Bogatzkii, D. P.

REDUCTIE VAN NIKKELSILICAAT MINERALEN MET
KOOLMONOXIDE (Reduction of Nickel Silicate Mine-
rals with Carbon Monoxide). 13p. 9 refs. MTWL: 60.
(text in Dutch).

Order from OTS or ETC \$1.85 61-17658

Trans. of Zhurnal Prikladnoi Khimii (USSR)1947,
v. 20, p. 81-88.

DESCRIPTORS: *Carbon compounds, *Oxides, Nickel
compounds, Silicates, Minerals, *Reduction.

61-17658

I. Bogatzkii, D. P.
II. MTWL-60
III. Stichting Moeilijk
Toegankelijke Wetenschap-
lijke Literatuur

Office of Technical Services

Physicochemical Investigations in the Field of the Ammonia-Soda Process. IV. Kinetics of Crystallization of Sodium Bicarbonate Out of Supersaturated Solutions, by A. P. Belopol'skiy, F. G. Margolis, 46 pp.

UESIAN, per, Zhur Prik Khim, Vol XX, No 4, 1947,
p 331-344.

Sci Tr Center
RT-1594

Scientific- Chemistry

18,781

CTS/DEX

Theory of Chemical Absorption. V.
Absorption of Carbon Dioxide by Sodium Carbonate
Solutions by M. E. Pozin.
RUSSIAN, per, Zhurnal Prikladnoi Khim., Vol XX,
No 4, 1947, pp 353-359.
SLA TT 64-18955

Apr 67

323,080

On the Problem of Reactions in the System
SiO₂-C during Heating, by A. N. Novikov,
MESSIAV, per, Zh. Fiz. Khim., Vol 20, No 5,
1947, pp 431-438. P911140866
ABC SC-T-66-6762

Sci/Chemistry
Jan 67

316,187

Investigation of the Conditions of Preparing
Used Phosphates, by K. I. Zagvozdkin, N. A.
Barilko, 1b pp.

RUSSIAN, per, Zhur Prik Khim, Vol XX, 1947,
pp 502-514.

SLA R-2615

Sci - Chem

Jun 59

89,596

Pozin, M. E. and Opykhtin, M. A.
THE THEORY OF CHEMICAL ABSORPTION. V. THE
ABSORPTION OF CHLORINE AND SULPHUR DIOXIDE
BY SOLUTIONS OF CAUSTIC SODA: THE ABSORP-
TION OF CHLORINE BY BENZENE (Teoriya
Khemosorbsii. V. Absorbtsiya Khlora i Sernistogo
Gaza Rastvorami Edkogo Natra: Absorbtsiya Khlora
Benzolem). [1963] [23p] (foreign text included) 4refs
Order from OTS, SLA, or ETC \$2.60 TT-63-20162

Trans. of Zhurnal Prikladnoi Khimii (USSR) 1947,
v. 20, no. 6, p. 523-631. (Abstract available)

DESCRIPTORS: *Absorption, *Chlorine, *Dioxides,
*Sulfur compounds, *Sodium compounds, *Hydroxides,
*Benzenes,

The correctness of the theoretically derived equations of
kinetics of chemosorption was confirmed on a series
of examples (absorption of chlorine and sulphurous gas
(Chemistry--Physical, TT, v. 11, no. 4) (over)

TT-63-20162

- I. Pozin, M. E.
- II. Opykhtin, M. A.
- III. Title: Absorption...
- IV. Title: Absorption...

Office of Technical Services

Faraday's Law and Current Yield in the Electrolysis
of Fused Salts. Part I. Influence of Temperature,
by A. F. Alabyshev, 9 pp.

RUSSIAN, per, Zhur Prik Khim, Vol XX, 1947, pp
558-562, summary in English, p 563.
M

CIA/FDD/X-1247

Scientific - Chemistry
CTS/DEX

10,063

Physicochemical Investigations in the Field of
Ammonia-Soda Process. V. Concerning Relative Roles
of Resistance of Gaseous and Liquid Films in Carboni-
zation of Ammonia-Soda Solutions, by A. P.
Belopol'skiy, 12 pp.

RUSSIAN, per, Zhur Prik Khim, Vol XX, No 7, 1947,
pp 577-583.

Sci Tr Center
RT-1591

Scientific - Chemistry

CTS/DEX

18,785

Faraday's Law and Current Yield in the Electrolysis
of Fused Salts. Part II. Influence of Current
Density at the Electrodes, by A. F. Alabyshev,
11 pp.

RUSSIAN, per, Zhur Prik Khim, Vol XX, 1947, pp 59/-
604, summary in English, p 604.

CIA/FDD/X-1348
OTS FT-63-20431 (16pp)

Scientific - Chemistry
CTS/DEX

10, 116

On Several Derivatives of Phenanthrene, by
Yu. S. Zalkind, Kh. V. Balyan.

RUSSIAN, per, Zhur Prik Khim, Vol XX, No 7,
Jul 1950, p 1209.

11.17
Consultants Bureau

Scientific - Chemistry

14,455

Reaction of Ethylene Oxide With Ammonia Over
Aluminum Oxide, by M. S. Malinovskiy,
B. N. Moryganov, 8 pp.

RUSSIAN, no per, Zhur Prik Khim, Vol XX, No 7,
1947, pp 630-634.

Sci Tr Center RT-2446

Scientific - Chemistry
Dec 55 CTS/DEX

28,987

Resistance of an Electrolyte in a Bath as a
Function of the Form, Dimensions, and
Arrangement of the Electrodes. III. A
Combination of a Flat Electrode and a
Cylindrical one, by V. P. Mashovets,
V. V. Cherdynsev, M. V. Neistrueva, 19 pp,
UNCLASSIFIED
1947, pp 660-668.

K-H-28766
RUSSIAN, per, Zhur Prik Khim, Vol XX, No 7,
1947, pp 660-668.

P'yankov, V., and Druzhinin, F.
OVER DE SNELHEID DER REACTIES VAN ZWAVEL-WATERSTOF MET ENIGE METAALOXYDEN (Velocity of the Reaction Between Hydrogen Sulfide and Some Metal Oxides) tr. by G. J. M. Fritschy. 7p.
4 refs, MTWL-49. (text in Dutch).
Order from OTS or ETC \$1.55

61-17667

Trans. of Zhurnal Prikladnoi Khimii (USSR) 1947,
v. 20, p. 693-696.

DESCRIPTORS: *Hydrogen compounds, *Sulfides, Metals, *Oxides, Chemical reactions.

61-17667

- I. P'yankov, V.
- II. Druzhinin, F.
- III. MTWL-49
- IV. Stichting Moeilijk Toegankelijke Wetenschappelijke Literatuur

Office of Technical Services

VOZDVIZHENSKIY, G. S.

Zhurnal prikladnoi khimii, vol. 20, No. 9, 2800 words;
1947.

Mechanism of the Electrodeposition of Nickel.

Brutcher Trans, Order No 2149, \$4.90.

Reduction of Alkali Metal Chlorides, by P. V. Gel'd,
A. S. Miltinskii, M. B. Polys'kova, A. P. Solyanikii,
18 pp. K

RUSSIAN, per, Zhur Fiz Khim, Vol XX, 1947, pp
800-808.

AGS

Sci

Aug 59

93, 538

Shneerson, A. L., and Leibush, A. G.
ABSORPTION OF CARBON DIOXIDE BY ETHANOLAMINES. I. RATE OF ABSORPTION OF CARBON DIOXIDE IN SOLUTIONS OF MONO-, DI-, AND TRIETHANOLAMINES. 23p. 17 refs. MTWL: 171.

Order from OTS or ETC \$1.91 61-17837

Trans. of Zhurnal Prikladnoi Khimii (USSR) 1946, v. 19, no. 9, p. 869-880.

DESCRIPTORS: *Carbon dioxide, Ethanol, *Amines, Solutions, Absorption.

61-17837

I. Shneerson, A. L.
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III. MTWL-171
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Office of Technical Services

Effect of Viscosity of Medium Upon Vinyl Compound Polymerization, by Z. A. Rogovin,
L. A. Tsaylina, 12 p.

p. RUSSIAN, pos, Zhur Pril Khim, 1947, Vol XX,
No 9, pp 875-882.

SIA 59-17259
SLA 64-20156

Sci
Dec 59
Vol 2, No 6

104,002

Polymerization of Vinyls in Presence of Nitric Acid Esters, by Z. A. Rogovin, L. A. Tsaplina, 6 p.

RUSSIAN, per, Zhur Prikl Khim, 1947, Vol XX, No 9, pp 883-886.

SLA 59-17260
UTS TT-63-20611

Sci
Dec 59
Vol 10, No 6
2,

104, 003

ZHELEZKOV, P.S.
R-3022. Diffusion through a double osmotic membrane.
Zhur. Priklad. Khim., 20, p.911-13, 1947. (3p.)

TT-63-18566

Pozin, M. E.
THE THEORY OF CHEMICAL ABSORPTION. VIII. ON
THE COEFFICIENT OF THE RATE OF ABSORPTION.
[1963] 17p (figs formulae omitted) 12refs
Order from OTS, SLA, or ETC \$1.60 TT-63-18566

Trans. of Zhurnal Priladov Khimii (USSR) 1947, v. 20,
no. 10, p. 903-975. (Abstract available)
A trans. is available in Dutch from OTS or ETC \$2.71
in TT-61-17957, MTWL-303, 43p.

DESCRIPTORS: *Absorption, *Kinetic theory, Diffusion,
Absorbents, *Towers (Chemistry), Fluid flow.

There is established the regularity for the rate of mass transmission through a diffusion layer of liquid in the form of a function of dimensionless criteria characterizing the physical, hydrodynamic and geometric conditions of work of a scrubber. The experiments which (Chemistry--Physical, TT, v. 11, no. 4) (over)

I. Pozin, M. E.
II. Title: Or...

Office of Technical Services

Phase Equilibria of Binary Systems Containing Acenaphthene, Fluorene, Phenanthrene, Fluoranthene and Naphthalene, by Yu. V. Klobcze-Shevnik, 12 pp.

RUSSIAN, per, Zhar Prikl Khim, 1948, Vol XXI, No 3, pp 309-312; 1949, Vol XXII, No 6, pp 848-852.

Sci Mus Lib No 53/0540

Scientific - Chemistry Jun 53 CTS

2267

Influence of Temperature and Moisture on the
Corrosion of Metals in an Atmosphere of Sulfur
Dioxide, by O. V. Zarubina, M. L. Turich, 10 pp.

RUSSIAN, per, Zhur Prikl Khim, Vol XXI, 1948,
pp 362-371.

SIA R-2492

Sci
Aug 59

94, 557

The Nature of Heat Liberation in the Synthesis of
Calcium Silicates, by F. I. Vosenin.

RUSSIAN, per, Zhur Prik Khim, Vol XXI, 1948,
pp 392-393. 7.14.03

United Kingdom Scientific Mission
SLA

Sci - Chemistry
Oct 57

54, 436

ZHUR PRIKLAD KHMII

Vol XXI, No 4, 1948, 16 pp

Effect of Impurities in a Lead-Antimony Alloy on the Work
of the Grid of a Lead Storage Battery. I. Anode Corrosion
of the Alloys II. "The Kinetics of Erosion"

V. P. Mashovets
A. Z. Lyandres

Translation (32 pp) M. A. London R 1686949
listed in abstracts of T. I. Documents
ONI FS 4320-49, 15 Aug 1949

OKD thru DS RD 16/3

75T23

Thermal Oxidation of Chromium Oxide and Dissociation
of Calcium Chromates, by F. I. Vasenin, 16 pp.

RUSSIAN, per, Zhur Prik Khim, Vol XXI, 1948, pp
429-436.

AEC SCL T-171

Sci - Chem

Sep 58

73, 801